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STATEMENT # UNCLASSIFIED

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to the rank of Lt. General. Acta Med. Leg. Soc., 31(2),

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(14) NMS - ~~Examination 12240~~

(10) C. Iranyi, Iranyi,
S. Somogyi and
B. Grovecz.

(6) LIGHTNING KILLED.

(The Mechanism of Death by Lightning)
(Mecanisme de la Mort par la Foudre),

C. Iranyi et al.
Institute of Forensic Medicine, Budapest, Hungary)

The authors performed systematic examinations of 200 cases of lightning and electricity. Mortality was 20%. The age of fatal victims ranged between 1 and 63 years. The proportion of the male and female sex was 64:25%. 64 of the victims were struck in the open air and 21 inside of a building.

It was possible to note the deterioration of clothing caused by the lightning, signs of fusion of metals and singeing of the hairy system over a large surface of all lethal victims. On 35 of the lightning victims (17% of the cases) there was noted carbonization by typical fulguration. On 55 victims no carbonization with fulguration was present. In regard to the external findings, in the majority of cases there were superficial contusions and extensive third and second degree burn lesions. A smaller number showed secondary lesions which alone could have caused death. In 8 cases no signs of external lesions were found. At the time of autopsy no specific pathological alterations were found.

In 76 cases death was sudden, 7 of the accident victims died after one hour, 3 of the victim after 48 hours. The

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Death by Lightning - 2 -

surviving victims presented the characteristic syndrome with the following components: disturbances of consciousness, paralysis of nerves and cutaneous vasodilation. These symptoms were reversible and cleared in a few minutes or several hours. After 1-2 years no signs of any regressive symptoms were apparent.

Lightning causes practically no destruction on a living organism, the internal organs appear to be protected. The difference of the electric tension levels off on the superficial surface. The energy of the lightning has effect on epidermic nerve receptors in the skin and causes circulatory disturbances, tissular hypoxia, and inhibition of the functioning of the nervous system. If changes involve centers of vital importance, the accident may become lethal.

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For Dr. T.M.Coleman

Translated by William Boddyoff